

ABSTRACT OF THE DISCLOSURE

[0058] An apparatus according to the present invention includes a support structure having a primary portion with first and second arm portions formed thereon for movement relative to one another, and a secondary portion with either a clamp portion or valve portion integrally formed on an outer end of each arm portion for movement therewith. A primary actuator is operably associated with the primary support structure for driving the arm portions relative to one another in response to an electrical activation of the primary actuator. Secondary actuators are operably associated with the secondary portions for independently driving the secondary portions between an opened position and a closed position in response to an electrical activation of each secondary actuator. Each of the actuators is operable independently of one another. The apparatus is operable to provide a bi-directional motor, a bi-directional pump, or a bi-directional compressor depending on the selected configuration and sequential mode of triggering the primary and secondary actuators.